

DESCRIPTION OF OPERATION
 WATER PLANT CLEARWELL PROBE PANEL
 JACKSONVILLE, NORTH CAROLINA
 S.O. 15726, ITEM F

Reference Wiring Diagram 902064-01.

Referring to the wiring diagram, when the level in the clearwell rises to the top probe, it energizes probe relay PR1, which seals itself in through a normally open contact and the high alarm stop probe. Another normally open contact of PR1 energizes CR3, which transmits a high level alarm signal to the main control panel at the New River Water Treatment Plant and energizes CR2 and CR2A. CR2 and CR2A hold in through normally open contacts of CR2A and CR1A and start the three pumps. The pump continues to run until the low level alarm and cutoff probe is reached and then are shut off. When the level in the clearwell recedes below the second probe, the probe relay PR1 de-energizes, stopping the high alarm signal.

When the level in the clearwell falls below the low alarm and pump cutoff probe, probe relay PR2 becomes de-energized, thereby de-energizing relays CR1 and CR1A. A normally closed PR2 contact transmits a low level alarm signal to the main panel. At the same time, normally open contacts of relay CR1 interrupt the pilot circuits to the motor starters for the finished water pumps, thereby disabling those pumps. These relays will stay off until the water rises above the third probe, which re-energizes probe relay PR2 and relay CR1. This will permit the finished water pumps to be re-started as required. At the same time, the low level alarm signal to the main panel ceases.

TITLE DESCRIPTION OF OPERATION JACKSONVILLE, N.C. S.O. 15726, ITEM F	DESIGNED TWM	DRAWN	CHECKED	REVISION B
 Consolidated Electric Company 141 SOUTH LAFAYETTE FREEWAY SAINT PAUL, MINNESOTA 55107	PAGE 1 OF 1	DRAWING NO IM01078		

DESCRIPTION OF OPERATION

IN RESEARCH LABORATORY, PROBE

AT SONYVILLE, NORTH CAROLINA

ON 12/26/55, ITEM

The following information was obtained from the test...
The test was conducted on 12/26/55 at the laboratory...
The results of the test are as follows:...

1. The test was conducted on 12/26/55 at the laboratory...
2. The results of the test are as follows:...

3. The test was conducted on 12/26/55 at the laboratory...
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5. The test was conducted on 12/26/55 at the laboratory...
6. The results of the test are as follows:...